

EXHIBIT 4

GAS EXTRACTION WELLS MONITORING
JULY TO DECEMBER 2017



LANDFILL TECHNOLOGIES OF ARECIBO, LLC

January 15th, 2018

Eng. Luis R. Sierra Torres
Inspection and Compliance Division
Air Quality Area
Puerto Rico Environmental Quality Board
PO Box 11488
Santurce, Puerto Rico 00910

**RE: MONITORING MONTHLY GAS EXTRACTION WELLS
ARECIBO MUNICIPAL SOLID WASTE LANDFILL**

Dear Mr. Sierra:

Landfill Technologies of Arecibo, LLC. is respectfully submitting for your review the reports of the monitoring monthly of the gas extraction wells of the Gas Collection and Control System for the Arecibo Municipal Solid Waste Landfill, corresponding to the months July to December 2017.

If you need additional information, please contact us to our office at (787) 273-7639 or by email, cotero@landfillpr.com.

Cordially,

Eng. Cynthia B. Otero Cordova
Project Engineer

Data Collected Arecibo GCCS Jul 2017

Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
ARWG0001	64.6	22.5	0.3	12.6	-0.1	94	0
ARWG0002	50.6	30.5	0.3	18.6	-0.1	99	3
ARWG0003	37.4	25.5	0.3	36.8	0	99	1
ARWG0004	53.5	32.5	0.3	13.7	0	101	3
ARWG0005	55.6	32.3	0.2	11.9	-0.1	99	4
ARWG0006	66.7	31.9	0.3	1.1	-0.1	96	6
ARWG0007	67.4	29.8	0.2	2.6	-0.1	101	5
ARWG0008	40.1	26.4	0.2	33.3	0	99	2
ARWG0009	35.3	27.1	1.5	36.1	0	99	1
ARWG0010	70.6	25.6	0.2	3.6	-0.1	93	9
ARWG0011	74.6	25	0.3	0.1	-0.1	97	16
ARWG0012	66.3	33.3	0.2	0.2	0	97	9
ARWG0013	74.3	25.3	0.2	0.2	-0.1	96	10
ARWG0014	39.8	26.3	0.2	33.7	-0.1	95	4
ARWG0015	41.5	30.2	0.2	28.1	-0.1	95	5
ARWG0016	45.8	25.6	0.2	28.4	0	99	2
ARWG0017	67.8	25.6	0.2	6.4	-0.1	101	5
ARWG0018	71.1	28.6	0.2	0.1	-0.1	102	10
ARWG0019	53.8	34.5	0.2	11.5	-0.1	99	4
ARWG0020	56.8	30.1	0.2	12.9	0	105	7
ARWG0021	52.4	33	0.2	14.4	-0.1	102	15
ARWG0022	53.3	33	0.1	13.6	-0.1	98	5
ARWG0023	68.5	30.1	0.1	1.3	0	104	10
ARWG0024	44.1	30.1	0.1	25.7	0	99	2
ARWG0025	61.8	38	0.1	0.1	-0.1	100	8
ARWG0026	58	41.2	0.2	0.6	-0.1	107	9
ARWG0027	30.8	30.1	0.1	39	-0.1	100	3
ARWG0028	63.5	36	0.1	0.4	-0.1	94	7
ARWG0029	60.3	39.4	0.2	0.1	-0.1	101	7
ARWG0030	62.3	34.1	0.2	3.4	-0.1	97	6
ARWG0031	45.8	30.4	1.2	22.6	0.1	98	3
ARWG0032	66.3	28.6	0.2	4.9	-0.1	98	2
ARWG0033	65.3	30.5	0.1	4.1	-0.1	97	4
ARWG0034	68.5	28	0.1	3.4	0.1	101	3
ARWG0035	54.6	36.2	0.4	8.8	-0.3	102	5
ARWG0036	63.7	34.5	0.6	1.2	-1.4	103	8
ARWG0037	53.4	34.1	2.6	9.9	-8.6	91	8
ARWG0038	62.9	36.4	0.5	0.2	-8.3	97	11
ARWG0039	41.2	29.3	0.3	29.2	-0.1	105	2
ARWG0040	59.4	40.2	0.2	0.2	0	111	6
ARWG0041	51.9	29.8	0.2	18.1	0	107	11

Data Collected Arecibo GCCS Jul 2017

ARWG0042	62.7	33.7	0.2	3.4	-0.1	104	10
ARWG0046	61	38.6	0.2	0.2	0	93	12
ARWG0047	63.1	36.5	0.2	0.2	-0.2	99	10
ARWG0048	60.7	38.7	0.5	0.1	-9.2	97	11
ARWG0049	62	37.5	0.3	0.2	-3.7	100	13
ARWG0050	57.8	40.4	0.9	0.9	-4.2	107	9
ARWG0051	57.1	40.1	0.6	2.2	-0.1	112	11
ARWG0052	58.6	40.7	0.5	0.2	-5	99	11
ARWG0057	12.7	28.9	0.2	58.2	0	94	3
ARWG0058	56.2	43	0.7	0.1	-8.2	98	12
ARWG0059	56.9	39.3	1.3	2.5	-9.2	96	12
ARWG0060	54.8	41.8	1	2.4	-6.6	114	14
ARWG0061	54.4	41.5	1.2	2.9	-4.5	115	12
ARWG0065	56	40.9	0.9	2.2	-3.8	107	12
ARWG0066	55.3	41.4	0.9	2.4	-3	110	11
ARWG0067	3.7	16.6	12.1	67.6	1.2	97	4
ARWG0068	54.7	41.4	1.1	2.8	-4.2	109	13
ARWG0069	55.7	41.3	0.8	2.2	-4.1	112	11
ARWG0070	56.4	43.2	0.3	0.1	-0.3	117	16
ARWG0071	55.3	43.6	0.5	0.6	-1.1	116	12
ARWG0072	55.1	42.4	0.7	1.8	-2.3	110	11
ARWG0073	57.4	39.9	0.8	1.9	-5.9	101	13
ARWG0074	58.7	40.6	0.5	0.2	-8.2	102	10
ARWG0075	48.5	38.5	2.7	10.3	-3.2	95	8
ARWG0077	58	41.3	0.5	0.2	-1.2	113	13
ARWG0078	57.4	41.3	0.7	0.6	-1	112	11
ARWG0079	55.4	44.2	0.3	0.1	-0.2	103	11
ARWG0080	58.1	41.5	0.3	0.1	-0.7	108	7
ARWG0081	54.8	40.4	0.6	4.2	-1.3	101	9
ARWG0082	57	42.5	0.2	0.3	-0.1	109	7
ARWG0083	58	41.6	0.3	0.1	-0.5	111	11
ARWG0084	57.3	42.3	0.2	0.2	-0.6	110	8
ARWG0085	57	41.4	0.2	1.4	-0.1	107	6

Data Collected Arecibo GCCS August 2017

Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
ARWG0001	63.1	22.5	0.2	14.2	-0.1	97	3
ARWG0002	60.7	30	0.2	9.1	-0.1	99	3
ARWG0003	70.9	26.2	0.2	2.7	-0.1	96	5
ARWG0004	57.8	35.8	0.2	6.2	-0.1	98	6
ARWG0005	38.7	29.4	0.2	31.7	-0.1	96	1
ARWG0006	67.3	32.3	0.2	0.2	-0.3	98	8
ARWG0007	58.2	31.1	0.2	10.5	-0.1	96	4
ARWG0008	60.6	28.8	0.2	10.4	-0.1	96	7
ARWG0009	51.1	24.9	3	21	-0.1	101	1
ARWG0010	71	26.3	0.3	2.4	-0.1	94	9
ARWG0011	67.2	29.1	0.2	3.5	-0.1	98	9
ARWG0012	63.1	33.8	0.2	2.9	-0.1	98	7
ARWG0013	68.4	26.3	0.2	5.1	-0.1	97	13
ARWG0014	66.6	28.5	0.2	4.7	-0.1	96	7
ARWG0015	66.7	32.2	0.2	0.9	0	93	7
ARWG0016	59.2	27.2	0.3	13.3	-0.1	98	6
ARWG0017	51.4	26.7	0.3	21.6	0	101	5
ARWG0018	67.3	32	0.2	0.5	-0.1	104	9
ARWG0019	37.3	32.1	0.2	30.4	0	98	0
ARWG0020	49.4	30.1	0.2	20.3	-0.1	103	4
ARWG0021	29.9	28.8	0.2	41.1	-0.1	101	0
ARWG0022	4.5	21.7	0.3	73.5	-0.1	100	2
ARWG0023	34	27.3	0.2	38.5	0	105	3
ARWG0024	26.4	27.7	0.2	45.7	-0.1	102	3
ARWG0025	33.1	31.9	0.2	34.8	-0.1	104	0
ARWG0026	49.3	38.2	1.4	11.1	-0.2	102	7
ARWG0027	58.1	38.4	0.2	3.3	-0.1	95	9
ARWG0028	45.7	31.2	0.5	22.6	-0.1	92	4
ARWG0029	37.5	29.6	0.5	32.4	-0.1	95	1
ARWG0030	64.5	34.8	0.5	0.2	-0.4	98	6
ARWG0031	63.6	36	0.3	0.1	-0.1	97	5
ARWG0032	54.6	28.8	0.2	16.4	-0.1	95	2
ARWG0033	64.1	28.4	0.2	7.3	-0.1	93	7
ARWG0034	70.7	28.7	0.2	0.4	-0.1	101	9
ARWG0035	60.9	38.3	0.6	0.2	-0.3	103	9
ARWG0036	64.4	34.2	1.1	0.3	-5.3	103	7
ARWG0037	54.8	36	2.4	6.8	-10.9	99	7
ARWG0038	62.4	37	0.4	0.2	-8.6	101	14
ARWG0039	67.7	31.6	0.5	0.2	-0.2	108	6
ARWG0040	61.3	35.6	0.3	2.8	-0.2	113	7
ARWG0041	67.4	32.2	0.2	0.2	-0.1	106	14

Data Collected Arecibo GCCS August 2017

ARWG0042	66.5	33.2	0.2	0.1	-0.6	93	10
ARWG0043	58.8	40.9	0.2	0.1	-0.2	106	10
ARWG0044	60.9	38.7	0.2	0.2	-0.1	111	12
ARWG0046	40.6	26.5	6	26.9	-0.5	95	3
ARWG0047	60.4	37.7	0.5	1.4	-7.1	102	7
ARWG0048	60	39.5	0.3	0.2	-9.4	99	10
ARWG0049	62.1	37.5	0.3	0.1	-5.5	101	12
ARWG0050	58	41.5	0.3	0.2	-5.4	110	8
ARWG0053	58.6	41.1	0.2	0.1	-10.2	113	211
ARWG0054	58.4	41.2	0.2	0.2	-0.1	118	24
ARWG0056	58.9	40.6	0.3	0.2	-0.1	108	10
ARWG0057	13.5	29.4	0.2	56.9	-0.4	102	2
ARWG0058	56.4	43.1	0.4	0.1	-7.9	102	12
ARWG0059	58.7	39.8	0.7	0.8	-10.1	102	11
ARWG0063	55.4	41.7	0.9	2	-3	113	11
ARWG0064	58.1	40	1.2	0.7	-2.4	109	4
ARWG0065	57	41.8	1.1	0.1	-5.1	107	12
ARWG0066	53.8	45.1	0.9	0.2	-5.9	109	10
ARWG0067	6.1	27.3	7.6	59	-0.1	100	1
ARWG0068	49.9	42.5	0.9	6.7	-4.6	109	10
ARWG0069	49.6	40.9	0.9	8.6	-2.2	113	9
ARWG0070	52.9	43.1	0.1	3.9	-0.1	119	11
ARWG0071	52.8	43.5	0.8	2.9	-2.9	116	12
ARWG0072	53.8	42	1.1	3.1	-2.6	113	29
ARWG0073	58.6	40.5	0.7	0.2	-9.2	103	12
ARWG0074	58.4	41	0.4	0.2	-11.7	103	10
ARWG0075	55.5	44.2	0.2	0.1	-5.9	95	13
ARWG0076	57.2	40.7	0.8	1.3	-5.5	112	12
ARWG0077	56.6	40.1	1	2.3	-5.2	110	13
ARWG0078	56.5	40.4	0.8	2.3	-4.8	110	12
ARWG0079	55.2	44.1	0.5	0.2	-0.6	110	12
ARWG0080	48.9	37.6	0.2	13.3	-0.7	108	7
ARWG0081	56.9	40.1	0.9	2.1	-2.1	102	10
ARWG0082	54.5	39.9	0.7	4.9	-0.7	109	5
ARWG0083	54.1	37	0.5	8.4	-0.9	111	8
ARWG0084	43	35.7	0.8	20.5	-1.6	107	5
ARWG0085	56.3	40.8	0.3	2.6	-0.2	108	6

Data Collected Arecibo GCCS November 2017

Device ID	CH4	CO2	O2	Balance	Static Press.	Gas Temp.	Flow
GEM™5000	%	%	%	%	inches H2O	DegF	SCFM
ARWG0001	71.2	23.1	0.2	5.5	0.11	95.5	7.5
ARWG0002	64.3	33.6	0	2.1	-0.01	95.6	4.6
ARWG0003	37.8	28.5	0.1	33.6	-0.01	95	3.2
ARWG0004	56	36.7	0	7.3	0.02	96.8	6.4
ARWG0005	39.6	31.1	0	29.3	0.02	92.4	0
ARWG0006	55	31.9	0.1	13	-0.29	96.3	5
ARWG0007	54	32.1	0.2	13.7	-0.02	94	4.2
ARWG0008	48.5	30	0.2	21.3	0.03	89.6	3.9
ARWG0009	60	28.7	1.9	9.4	-0.01	93.6	8.9
ARWG0010	73.6	26.4	0	0	-0.28	91.8	7
ARWG0011	76.2	23.8	0	0	0.1	95.7	7.2
ARWG0012	62.4	35.8	0.1	1.7	-0.12	94.4	9.1
ARWG0013	75	25	0	0	-0.03	95.5	8.4
ARWG0014	50.6	27.7	0.2	21.5	0.02	96.4	4.4
ARWG0015	64.1	33.3	0.1	2.5	-0.02	93.3	4
ARWG0016	64.8	29.1	0.2	5.9	-0.01	92.9	1.6
ARWG0017	70.5	28.7	0.1	0.7	-0.03	94	9
ARWG0018	71.4	28.5	0.1	0	-0.14	98.4	37.6
ARWG0019	58.6	41.4	0	0	-0.01	98.8	7.8
ARWG0020	70.1	29.9	0	0	0.05	96.8	7.1
ARWG0021	68	32	0	0	-0.24	98.9	22.4
ARWG0022	57.8	42.2	0	0	0.06	97.9	4.9
ARWG0023	64.8	35.2	0	0	-0.01	103.2	10.7
ARWG0024	61.4	38.6	0	0	0.09	98.1	7
ARWG0025	58.8	36	1.1	4.1	0.04	105.9	6.6
ARWG0026	57.5	41.7	0	0.8	0.38	101.6	3.6
ARWG0027	59.5	39.3	0	1.2	-0.01	99.7	5.4
ARWG0028	62.4	36.9	0	0.7	-0.03	107.9	1.9
ARWG0029	65.2	34.7	0	0.1	0.02	98.4	1.9
ARWG0030	67.9	32.1	0	0	0.14	97.5	5.6
ARWG0031	63.9	35.5	0	0.6	0.16	102.3	5.8
ARWG0032	67.7	31.8	0	0.5	0.08	111.9	3
ARWG0033	67.8	29.3	0	2.9	0.08	103.2	4
ARWG0034	72.5	27.2	0	0.3	0.13	101.9	9.5
ARWG0035	60.8	38.9	0.3	0	-0.49	89.7	8.2
ARWG0036	64.3	35.4	0.3	0	-1.45	89.4	4.4
ARWG0037	52.5	35.5	2.6	9.4	-4.36	89.4	5.5
ARWG0038	62.5	36.9	0.5	0.1	-2.14	94	14.2
ARWG0039	65.8	34.2	0	0	0	97.2	7.3
ARWG0043	58.7	40.9	0.4	0	-1	102.3	11.7
ARWG0044	58.4	41.5	0.1	0	-0.06	101.3	9.6

Data Collected Arecibo GCCS November 2017

ARWG0045	63.8	36.1	0.1	0	-0.14	107.5	10.3
ARWG0046	58.4	38.3	0.9	2.4	0.01	93.8	2.9
ARWG0047	60.5	39	0.5	0	-2.92	95.5	6.6
ARWG0048	60	39.9	0.1	0	-2.11	99.4	7.2
ARWG0053	56.5	43.4	0.1	0	-0.04	109.5	12.9
ARWG0054	56.2	43.7	0.1	0	0.07	118.7	22.5
ARWG0056	58.9	41	0.1	0	0.26	100	4.7
ARWG0058	56.6	42.8	0.4	0.2	-1.6	104.5	4.7
ARWG0063	54.8	45.1	0.1	0	-0.2	113.7	4.4
ARWG0065	57.4	42.1	0.2	0.3	-0.91	105.4	17.8
ARWG0066	56.8	42.8	0.1	0.3	-0.78	109.6	16.3
ARWG0067	10.6	36	0.4	53	1.18	95.9	2
ARWG0068	55.4	43.1	0.2	1.3	5.16	118.5	9
ARWG0069	55.9	41.8	0.8	1.5	-1.55	103.2	10.9
ARWG0070	56.5	43.4	0.1	0	-0.18	117.7	12.8
ARWG0071	55.2	44.7	0.1	0	-1.48	115.2	8.8
ARWG0072	54.8	43.3	0.4	1.5	-1.22	107.6	9.2
ARWG0073	56.9	40.5	0.5	2.1	-1.6	99.8	11.2
ARWG0074	56.9	40.4	0.5	2.2	-3.97	98.7	12.8
ARWG0075	52.4	41.6	1.1	4.9	-1.45	101.8	17.6
ARWG0076	59.4	38.8	1.8	0	6.09	114.5	17.7
ARWG0077	58.1	41.9	0	0	-0.11	114.6	16.3
ARWG0078	57.6	42.2	0.2	0	-0.26	108.2	7.2
ARWG0079	52.3	43.4	0.1	4.2	-0.22	107.6	3.2
ARWG0080	58.8	41	0.2	0	-0.48	107.8	5.6
ARWG0081	57.6	41.4	0.3	0.7	-0.72	99.9	8.3
ARWG0082	56.4	42.6	0.1	0.9	0.74	105.7	5.1
ARWG0083	57.8	41.3	0	0.9	-0.01	109.2	13.1
ARWG0084	56.8	41.6	0.1	1.5	0.36	104.6	7
ARWG0085	56.9	41.3	0.1	1.7	-0.11	101.7	31.2

Data Collected Arecibo GCCS December 2017

Device ID	CH4	CO2	O2	Balance	Static Press.	Gas Temp.	Flow
GEM™5000	%	%	%	%	inches H2O	DegF	SCFM
ARWG0001	72	22.9	0.1	5	0.05	107.5	4.3
ARWG0002	66.6	30.5	0.1	2.8	-0.04	99.4	8.4
ARWG0003	70.2	29.2	0.1	0.5	0.17	90.7	2
ARWG0004	64.1	35.8	0.1	0	-0.02	99.4	15.9
ARWG0005	59.2	32.1	0.3	8.4	-0.01	91.1	3.6
ARWG0006	61.7	32.4	0.2	5.7	-0.02	97.5	32
ARWG0007	63.9	32.7	0.1	3.3	0	91.1	4.3
ARWG0008	58.7	29.9	0.1	11.3	-0.02	88.6	5.9
ARWG0009	65.7	32.2	0	2.1	-0.28	95.4	7.9
ARWG0010	73.4	25.7	0	0.9	-0.32	98.4	5.3
ARWG0011	70.3	26.8	0	2.9	0.01	97.8	6.4
ARWG0012	55.4	33.2	0	11.4	-0.03	99.8	3.6
ARWG0013	66.8	28.7	0	4.5	0.01	99.5	5.7
ARWG0014	56.7	38.3	0	5	-0.03	100.2	9.4
ARWG0015	47.1	31.6	1	20.3	-0.05	97.9	6.9
ARWG0016	58	33.5	0	8.5	-0.03	101.5	8.1
ARWG0017	54.1	36.2	0.3	9.4	-0.02	97.4	<<>>
ARWG0018	72.3	27.3	0	0	-0.01	105.6	4.9
ARWG0019	58.5	39.3	0.2	0	0.05	90.2	5.9
ARWG0020	65.3	30.3	0.1	4.3	0.06	105.8	8.6
ARWG0021	65.8	34.2	0	0	0.14	99.8	8.8
ARWG0022	57.8	41.4	0.1	0.7	0.01	86.6	8.9
ARWG0023	47.2	34.5	0.1	18.2	-0.11	105.7	29.4
ARWG0024	60.4	37.7	0	1.9	-0.07	106.1	31.1
ARWG0025	53.5	37.1	0.6	8.2	-0.17	85.6	<<>>
ARWG0026	49	39.9	0.8	10.3	-1.03	107.4	14.1
ARWG0027	56	42.6	0	1.4	0.02	99	4
ARWG0028	42.5	31.6	0.2	25.7	-2.91	97.2	23.8
ARWG0029	59.5	37.2	0	3.3	-0.51	96.7	7.3
ARWG0030	64.3	33.8	0.4	1.5	-0.27	96	4.5
ARWG0031	63.6	35.7	0.2	0.5	-0.08	96.2	1.9
ARWG0032	50.1	41.5	0.3	8.1	-0.16	96.9	12.3
ARWG0033	56.2	32.4	0.4	11	-0.04	93.8	4.2
ARWG0034	66.1	33.3	0.1	0.5	-0.08	97.9	1.9
ARWG0035	61.3	38.6	0.1	0	-0.53	90.8	2.2
ARWG0036	65.5	34.3	0.2	0	-1.17	96	6
ARWG0037	59.8	39.5	0.4	0.3	-3.1	85.4	<<>>
ARWG0038	63	36.9	0.1	0	-0.72	95.9	6.1
ARWG0046	61.4	38.5	0.1	0	0.11	94.5	4.5
ARWG0047	61.1	38	0.4	0.5	-2.47	95.4	3.3
ARWG0057	13.9	29	0.4	56.7	-0.14	98.3	8.5

Data Collected Arecibo GCCS December 2017

ARWG0056	60.1	39.8	0.1	0	0.06	99.7	5.5
ARWG0069	56.9	43.1	0	0	-0.02	112	7.2
ARWG0070	57.2	42	0.6	0.2	-0.95	99.1	4.2
ARWG0071	52.1	44.3	0.5	0.3	1.51	119.4	<<>>
ARWG0072	56.7	43	0.1	0.2	-1.68	110.5	23.5
ARWG0073	57	41	0.2	0.7	-0.04	100.1	10.6
ARWG0074	57.4	42.1	0.4	0	-1.42	108.2	5.7
ARWG0075	58.8	41.2	0	0	-0.51	87.4	12.8
ARWG0076	57.8	42.1	0.1	0	0.54	109.5	<<>>
ARWG0077	58	40.9	0.1	1	-0.02	119.3	3
ARWG0078	56.5	43	0.3	0.2	-0.03	115.9	48.6
ARWG0079	54.4	44.6	0	1	-0.44	95.5	1.8
ARWG0081	58.7	43.2	0.1	0	-0.26	97.4	2.1
ARWG0080	57.1	41.1	0.1	1.7	-0.13	102.6	3.6
ARWG0083	57.7	41.6	0.5	1.1	-0.17	108.3	3.2
ARWG0082	59.3	39.1	0	1.6	-0.04	96.4	6.5
ARWG0085	58.9	43	0.2	1.5	-0.22	91.4	4
ARWG0084	57.2	42.3	0	0.5	0.93	86.2	<<>>

EXHIBIT 5

START UP, SHUT DOWN AND MALFUNCTION REPORT
JULY TO DECEMBER 2017



LANDFILL TECHNOLOGIES OF ARECIBO, LLC

**Semi-Annual Report
Shutdown and Malfunction Report
Arecibo Municipal Solid Waste Landfill**

July to December 2017

Prepared by:
Landfill Technologies of Arecibo, LLC

Landfill Technologies of Arecibo, LLC
Shutdown and Malfunction Report
 July to December 2017
 Arecibo Municipal Solid Waste Landfill

Date	Shutdown	Description	Corrective Action
7/19/2017	Flare Fault	Lateral 6" pipe broke.	The lateral pipe was repaired. The system was turned on and was kept on operation throughout the day as expected.
7/24/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/14/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/18/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/16/2017	Regular Maintenance of the condensate pumps.	Regular Maintenance of the condensate pumps.	The maintenance of the pumps was completed and the system was restarted and was kept on operation throughout the day as expected.
8/24/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/23/2017	Flare shutdown	Header 8" pipe broke.	The header pipe was repaired and the system was restarted and was kept on operation throughout the day as expected.
8/27/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/25/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/6/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/1/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/13/2017	Flare Fault	Temperature indicator failure	The instrument was verified and the system was restarted and was kept on operation throughout the day as expected.

Landfill Technologies of Arecibo, LLC
Shutdown and Malfunction Report
 July to December 2017
 Arecibo Municipal Solid Waste Landfill

Date	Shutdown	Description	Corrective Action
9/12/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/14/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/20/2017	Flare Fault	Hurricane Maria	The gas wells, pipes was reconnected, the electricity of the flares was repaired, the system was restarted and was kept on operation, but In an intermittent way through the days.
11/18/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
12/12/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day, but intermittent.
12/13/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day, but intermittent.
12/14/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
12/21/2017	Flare Fault	Flare Fault by High Temperature	The thermocouple was replaced and the system was restarted and was kept on operation throughout the day as expected.
12/22/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
12/26/2017	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.